

PONOMAREV, B.A., assistent

Use of the photoelastic method in investigating the distribution  
of tangential stresses in cross sections of walls built with I-beams.  
Sbor. LIIZHT no.156:26-34 '58. (MIRA 11:9)  
(Photoelasticity) (Girders) (Walls)

SHKODIN, Nikolay Yevgen'yevich, kand. veter. nauk; SHIBANOV,  
Vitaliy Ivanovich, veter. vrach; TESLENNIKOV, Dmitriy  
Kirillovich, veter. vrach; PONOMAREV, B.D., red.;  
ZUBOK, Ya.Z., tekhn. red.

[Echinococcosis and coenurosis of farm animals and measures  
for their control] Ekhinokokkoz i tsenuroz sel'skokhoziai-  
stvennykh zhivotnykh i mery bor'by s nimi. Frunze, Izd-vo  
M-va sel'.khoz. Kirg.SSR, 1960. 33 p. (MIRA 17:3)

BYCHKOV, I.Ya.; PONOMAREV, B.G., redaktor.

[Legal bases for the operations of public health agencies]  
Pravovye osnovy deiatel'nosti sanitarnykh organov. Moskva,  
Gos. izd-vo med. lit-ry, 1954. 95 p. (MIRA 7:8)  
(Public health)

L11735-66 EMT(1)/EMT(m)/T/EWP(t)/ETI IJP(c) JD/JG  
ACC NR: AP6020201 SOURCE CODE: UR/0056/66/050/006/1478/1480

AUTHOR: Levitin, R. Z.; Ponomarev, B. K.

ORG: Moscow State University (Moskovskiy gosudarstvenny universitet)

TITLE: Magnetostriiction of a metamagnetic iron-rhodium alloy

SOURCE: Zh eksp i teor fiz, v. 50, no. 6, 1966, 1478-1480

TOPIC TAGS: iron alloy, rhodium alloy, magnetostriiction, ferromagnetic material, antiferromagnetic material, critical point, critical magnetic field

ABSTRACT: This is a continuation of earlier work (ZhETF v. 46, 2003, 1964) on various properties of iron-rhodium alloys, which have been shown to be antiferromagnetic below a certain critical temperature and ferromagnetic above it. Since these results imply that such an alloy (close in composition to Fe<sub>0.5</sub>Rh<sub>0.5</sub>) should have a very large magnetostriiction, especially below the critical temperature and at fields stronger than the critical field, the authors have measured the magnetostriiction at temperatures 290 - 400K and in fields up to 150 kOe. The magnetostriiction was measured in pulsed magnetic fields with apparatus described elsewhere (PTE, No. 3, 188, 1966). The measurement procedure was modified somewhat to permit direct photography of the field dependence of the magnetostriiction from the oscilloscope screen. The results confirm that below the critical temperature (~360K) the magnetostriiction increases rapidly when the critical field (which varies with the temperature) is reached. If, conversely, the values of the critical fields are determined from the maximum slope of the magnetostriiction curves, the results agree within the limit of errors

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ACC NR: AP6020201

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with the critical fields obtained in the earlier investigation from the magnetization curves. The magnetostriction reaches a value ( $3 - 3.6 \times 10^{-3}$ ) and decreases rapidly in the ferromagnetic region (above the critical temperature). The magnetostriction is thus shown to be connected essentially with the transition from the antiferromagnetic into the ferromagnetic state under the influence of the field. The magnetostriction exhibits a noticeable hysteresis at low temperatures. This confirms that the transition is a first-order one. The authors thank Professor K. P. Belov for interest in the work. Orig. art. has: 2 figures.

SUB CODE: 20// SUBM DATE: 17Jan66/ ORIG REF: 003/ OTH REF: 006

Card 2/2

paramagnetic fields up to 150 kOe. The measurements were made by procedures described elsewhere (PTE no. 3, 188, 1966). The magnetization was determined by a ponderomotive method. The torque was measured with a piezoelectric pickup. The results show that in the paramagnetic region (between 90 and 300K) the magnetization of single crystal

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It was positive along the hexagonal axis and negative perpendicular to it. Its value reached  $240 \times 10^{-8}$  at 220K in a field of 150 kOe (150° higher than the point of transition to a magnetically ordered

ACC NR: AP7003203

state). The temperature dependence of the magnetostriction is shown to be due entirely to the temperature dependence of the paramagnetic magnetization. The authors thank Professor Ye. M. Savitskiy, V. F. Terekhov, and V. Ye. Kolesnikov for supplying the erbium single crystal. Orig. art. has: 5 figures.

SUB CODE: 20/ SUBM DATE: 01Jul66/ ORIG REF: 003/ OTH REF: 004

Card 2/2

3(5,7)

PHASE I BOOK EXPLOITATION

SOV/2112

Tsentral'nyy institut prognozov

Voprosy sel'skokhozyaystvennoy meteorologii (Problems in Agricultural Meteorology) Leningrad, Gidrometeoizdat, 1958. 121 p. (Series: Its: Trudy, vyp. 72) Errata slip inserted for vyp. 53, 1957. 1,200 copies printed.

Sponsoring Agency: USSR. Glavnoye upravleniye gidrometeorologicheskoy sluzhby.

Ed. (Title Page): M.S. Kulik; Ed. (Inside book): L.P. Zhdanova;  
Tech. Eds.: A.A. Soloveychik, and M.I. Braynina.

PURPOSE: This issue of the Institute's Transactions is intended for agrometeorologists and agronomists.

COVERAGE: This collection of articles discusses various aspects of agrometeorology, namely the effect of climatological conditions

Card 1/4

## Problems in Agricultural Meteorology

SOV/2112

on various crops. Individual papers discuss the agrometeorological conditions surrounding the growth of spring wheat, clover, corn, millet, and buckwheat. Ye. A. Tsuberbiller discusses "agroklimat", i.e., the modified climatological conditions which prevail over a cultivated area resulting from changes in the thermal balance and vertical distribution of temperature. References accompany each article.

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## Problems in Agricultural Meteorology

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Card 3/4

SHIGOLEV, A.A.; PONOMAREV, B.P.

Relationship between the number of spikelets in the ear of spring  
wheat and agrometeorological conditions. Trudy TSIP no.72:3-11  
'58. (MIRA 12:1)

(Wheat) (Meteorology, Agricultural)

3(7)

AUTHORS: Rudenko, A. I., Ponomarev, B. P. SOV/50-59-2-8/25

TITLE: On the Development of Phenological Work (O razvitiu fenologicheskikh rabot)

PERIODICAL: Meteorologiya i gidrologiya, 1959, Nr 2, pp 38 - 39 (USSR)

ABSTRACT: In November and December 1957 the first post-war conference on phenology took place in Leningrad: the All-Union Conference on Phenology jointly organized by the Geograficheskoye obshchestvo Soyuza SSR (Geographical Society of the USSR) and the Botanicheskiy institut i Zoologicheskiy institut Akademii nauk SSSR (Institute of Botany and Institute of Zoology of the Academy of Sciences, USSR). In this connection it is mentioned that phenology is no longer to be considered a secondary discipline but an independent one. At present, the main task of phenology is the establishment of connections between seasonal natural phenomena and environmental conditions, primarily meteorological and hydrological factors. In the next few years it is planned to publish the "Phenological Characteristics

Card 1/2

On the Development of Phenological Work

SOV/50-59-2-8/25

of the USSR". The conference laid down a system of positive measures for the further development of phenology in the USSR: coordination of the efforts of phenologists and competent authorities, development of uniform phenological observation and evaluation methods, publication of phenological yearbooks and a popular magazine of phenology and a series of compendia containing phenological research material. The conference also adopted measures for the expansion of the voluntary phenological network by using students, teachers, farmers, apiarists, etc. Some of these measures have already been realized. The slow progress in the development of a uniform phenological observation method is regretted.

Card 2/2

RUDENKO, A.I.; PONOMAREV, B.P.

Development of phenological research. Meteor. i gidrol no.2:  
38-39 F '59. (MIRA 12:5)  
(Phenology)

PONOMAREV, B.P.

Aleksandr Alekseevich Shigolev; on his 60th birthday. Meteor. i  
gidrol. no.3:63 Mr '59. (MIRA 12:5)  
(Shigolev, Aleksandr Alekseevich, 1898-)

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CIA-RDP86-00513R001342120003-5

PONOMAREV, B.P.; KOZYREV, V.M.; KONONYUK, G.Ya.

Throughout the Soviet Union. Veterinaria 36 no.2:93 F '59.  
(MIRA 12:2)  
(Veterinary medicine--Congresses)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001342120003-5"

3(0)

AUTHOR:

Ponomarev, B. P.

SOV/50-59-3-22/24

TITLE:

Aleksandr Alekseyevich Shigolev

PERIODICAL: Meteorologiya i gidrologiya, 1959, Nr 3, p 63 (USSR)

ABSTRACT: Aleksandr Alekseyevich Shigolev, one of the most outstanding agrometeorologists in the USSR has celebrated his 60th birth-day (on October 20, 1958). He is the organizer of the agricultural phenological observations at the Gidrometeosluzhba. Already in 1932 he worked out a guide for observations in agricultural developments. The manual is illustrated by his own drawings representing plants in the various stages of their growth. There have been five editions of this book. Investigations led Shigolev to the conclusion that in many plants of the temperate zone the lower limit of the development temperature is constant. On the basis of this assumption he worked out temperature characteristics for the development of plants, as well as methods of phenological forecasting and of evaluating phenological data. He was very intensively concerned with the problem of the dependence of crops upon agrometeorological

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Aleksandr Alekseyevich Shigolev

sov/50-59-3-22/24

conditions. There are 27 scientific publications by him, apart from the phenological forecasts and surveys written for the periodical "Agrometeorologicheskiy byulleten'" of the Tsentral'-nyy institut prognozov (Central Forecasting Institute).

Card 2/2

PONOMAREV, B.P.

Methods for calculating moisture predictability for potatoes in  
their principal growing regions of the European U.S.S.R. Trudy  
TSIP no.47:59-64 '56. (MLRA 10:2)

(Potatoes)

PONOMAREV, B.P.

Calculating the height of winter rye in a non-chernozem zone of  
European U.S.S.R. Trudy TSIP no.41:83-86 '55. (MLRA 9:1)  
(Rye)

PONOMAREV, B.P.

USSR/Cultivated Plants - Potatoes. Vegetables. Melons.

M-3

Abs Jour : Ref Zhur - Biol., No 20, 1958, 91663

Author : Ponomarev, B.P.

Inst : Central Forecasting Institute.

Title : A Method of Estimating Moisture Supplies for Potatoes in  
the Chief Rayons Where it is Cultivated in the European  
Territory of the USSR.

Orig Pub : Tr. Tsentr. in-ta prognozov, 1956, byul. 47 (74), 59-64.

Abstract : Moisture supplies for potatoes are determined by the relation of available moisture to the quantity required. The total vaporization of a potato field, including transpiration of crops and evaporation from the surface of the soil, is determined by the formula  $E = kD$ , where  $k$  is coefficient of total vaporization,  $D$  is deficit sum of air moisture for a specific period.  $K$  was determined by the

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PONOMAREV, B.P.

Evaluating agrometeorological conditions suitable for the growth  
of winter rye during the period from shooting to ripening in the  
central Volga Valley and adjacent areas of the Central Black Earth  
Region. Trudy TSIP no.98;18-23 '60. (MIRA 13:11)

(Volga Valley--Rye) (Central Black Earth Region--Rye)  
(Crops and climate)

FONOMAREV, B.P., KHARIN, Yu.

Practices in rodent control. Veterinariya 41 no.11:93-95  
N '64. (MERA 18:11)

1. Zavedyuanichiy prizvodstvennym otdelom Irkutskoy oblastnoy veterinarnoy laboratorii (for Fonomarev). 2. Nachal'nik dezinfektsionnogo otryada Irkutskoy oblastnoy veterinarnoy laboratorii (for Kharin).

PONOMAREV, Boris Vladimirovich; ZHARENKOV, V Ye.V., red.; MAMONTOVA,  
N.N., tekhn. red.

[Reports of persons responsible for goods in retail enter-  
prises] Otketnost' material'no otvetstvennykh lits roznich-  
nykh gorgovykh predpriatii. Moskva, Gostorgizdat, 1962. 71 p.  
(MIRA 15:12)  
(Retail trade--Accounting)

PONOMAREV, B.V., red.; KOLOSOV, A.P., red.; MAMONTOVA, N.N., tekhn.  
red.

[Mechanization of accounting and calculating work in commerce; collected articles on exchange of practice] Mekhanizatsiiia ucheta i vychislitel'nykh rabot v torgovle; sbornik statei po obmenu opytom. Moskva, Gostorgizdat, 1962. 78 p.  
(MIRA 15:9)

(Russia—Commerce) (Machine accounting)

PONOMAREV, B.V.; STRELKOV, S.N.; ISHKOVA, A.K., red.; KISELEVA, A.A.,  
tekhn.red.

[Reference book on accounting in trade and public feeding]  
Spravochnik po bukhgalterskomu uchetu v torgovle i obshches-  
tvennom pitanii. Izd.2., ispr. i dop. Moskva, Gos.izd-vo  
torg.lit-ry, 1960. 745 p. (MIRA 14:2)  
(Retail trade--Accounting)  
(Restaurants, lunchrooms, etc.--Accounting)

PONOMAREV, B.V.; STRELKOV, S.N.; STARCHAKOVA, I.I., red.

[Manual for accounting in state commerce] Spravochnik  
po bukhgalterskomu uchetu v gosudarstvennoi torgovle.  
Izd.3., perer. Moskva, Ekonomika, 1964. 687 p.  
(MIRA 17:6)

PONOMAREV, B.V.

PONOMAREV, B.V., redaktor; SHONKO, P.M., tekhnicheskiy redaktor.

[How we organized our accounting] Kak my organizovali bukngalter-skii uchet. Moskva, Gostorgisdat, 1951. 63 p. [Microfilm](MLR4 7:12)  
(Accounting)

PONOMAREV, D.

Turkey - Social Conditions

Poverty and lack of rights of the Turkish working class. Prof. soiuzy no. 5. '52.

9. Monthly List of Russian Accessions, Library of Congress, August 1952 Unclassified.

PONOMAREV, D.N.; MIKISHA, A.M.

List of misprints and errors in the Pulkovo Astrographic Catalog  
of 11,322 stars between 70° northern declination and the North Pole.  
Trudy Glav. astron. obser. Ser. 2 72:123-132 '58.

(MIRA 13:3)

(Stars--Catalogs)

POKOMAREV, D.N.

Observations of Alcock's comet (1959e) in Moscow. Astron.tsir.  
no.207:3-4 D '59. (MIRA 13:6)

1. Gosudarstvennyy astronomicheskiy institut im. Shternberga, Moskva.  
(Comets--1959)

PONOMAREV, D. N.

PEASD I MOKH KARLOVITCH

SGV/5721

Vsesoyuznaya astrometricheskaya konferentsiya.

Trudy 14-y Astrometricheskoy konferentsii SSSR, Kiyev, 27-30 maya 1958 g.  
(Transactions of the 14th Astronomical Conference of the USSR, Held in Kiyev  
27-30 May 1958) Moscow, Izd-vo AN SSSR, 1960. 440 p. Errata slip inserted.  
1000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Glavnaya astronomicheskaya observatoriya  
(Pulkovo).

Resp. Ed.: M. S. Zverev, Corresponding Member, Academy of Sciences USSR; Ed. of  
Publishing House: N. K. Zaychik; Tech. Ed.: R. A. Zamoreyeva.

PURPOSE: The book is intended for astronomers and astrophysicists, particularly  
those interested in astronomical research.

COVERAGE: This publication presents the Transactions of the 14th Astronomical  
Conference of the USSR, held in Kiyev 27-30 May 1958. It includes 27 reports  
and 55 scientific papers presented at the plenary meeting of the Conference

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Transactions of the 14th Astronomical (Cont.)

SCV/5721

and at the special sectional meetings. An appendix contains the resolutions adopted by the Conference, the composition of the committees, the agenda, and the list of participants at the Conference. A brief summary in English is given at the end of each article. References follow individual articles. The Presidium of the Astronomical Committee (Chairman M. S. Zverev), which supervised the preparation of this publication, expresses thanks to the members of the secretariat: V. M. Vasil'yev, I. G. Kol'chinskiy, A. B. Onega, and Kh. I. Potter.

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Address by A. A. Mikhaylov, Chairman of the Astronomical Council of the Academy of Sciences USSR

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REPORTS OF THE ASTRONOMICAL COMMITTEE AND SUBCOMMITTEES  
INFORMATION ON ASTRONOMICAL WORK PRESENTED BY VARIOUS INSTITUTIONS

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Carri 5/16

KULIKOV, Konstantin Alekseyevich; BAKULIN, P.I., red.; PONOMAREV, D.N.,  
red.; MURASHOVA, N.Ya., tekhn. red.

[Course in spherical astronomy] Kurs sferycheskoj astronomii. Mo-  
skva, Gos. izd-vo fiziko-matem. lit-ry, 1961. 174 p.  
(MIRA 14:8)

(Astronomy, Spherical and practical)

PONOMAREV, D.N.

History of the development of the photographic zenith tube.  
Ist.-astron.issl. no.7:211-256 '61.  
(Telescope, Zenith) (MIRA 14:9)

KULIKOV, Konstantin Alekseyevi. Prinimal uchastiye ZHONGOLOVICH, I.D.;  
PONOMAREV, D.N., red.; MURASHOVA, N.Ya., tekhn. red.

[Latitude and longitude variation] Izmeniaemost' shirot i dolgot.  
Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1962. 400 p.  
(MIRA 15:5)

(Latitude)

(longitude)

VERESHCHAGIN, N.M. (Moskva); SEMIKHATOV, N.B. (Moskva); KULAKOV, V.Ye.;  
YAKOVLEV, Yu.Ya. (Moskva); PONOMAREV, D.N. (Moskva)

Books. Priroda 54 no.10:39,66,103,122-124 '65. (MIRA 18:10)

1. Leningradskiy pedagogicheskiy institut im. A.I.Gertseva (for  
Kulakov).

PONOMAREV, D.N.; VOLCHIKOV, A.A.

Determining the distortion of the Moscow photographic zenith  
telescope. Soob. GAIKH no.134:40-45 '64. (MIRA 17:8)

PONOMAREV, D. S.

"Operation of the 20-35 kv Network of Azenergo," "Operation of Cable Networks" (Eks-ploatatsiya kabeley i kabel'nykh setey), Gosenergoizdat, 1949, 384 pp.

PONOMAREV, D.S., inzh.

Measures for preventing corrosion in steel reinforced aluminum  
electric lines. Elek. sta. 32 no. 7:80-81 Jl '61. (MIRA 14:10)

(Electric lines--Corrosion)

PONOMAREV, D.V.

Weathering surfaces of ultrabasic rocks in the Shevchenko  
massif. Kora vyvetr. no.5:351-365 '63. (MIRA 16:7)

l. Kazakhskiy nauchno-issledovatel'skiy institut mineral'nogo  
syr'ya.

(Shevchenko massif—Weathering)  
(Shevchenko massif—Granite)

PONOMAREV, E. D.

(from the Therapeutic Clinic of the N. V. Sklifosovsky Institute; Director M. M. Tarasov)

"About the Transition of Eritremia into Acute Hemocytoblastosis", Prog. Hematol. + Blood  
abstract--B-99405 Transfusion, № 1, 1976

Ponomarev, E.S.

The comparative evaluation of furanol (furfuryltrimethylammonium iodide) and of pilocarpine. E. S. Ponomarev, N. I. Schmidt, M. Radzhabov, and Kh. Kusymov. *Nature, Poboly Studentov Stalinabad. Gosudarst. Med. Inst.* 8, 33-40 (1954); *Referat. Zhur. Khim., Biol. Khim.* 1955, No. 8811.

In dogs with chronic submaxillary and parotid fistulas furanol (I) stimulates twice the volume of saliva as does pilocarpine (II). The effect of I is peripheral as is shown by the continued salivary secretion after the severance of the post-ganglionic fibers. In man, I called forth a more potent salivary gland reaction and caused the sweat glands to secrete 3 time as voluminously as did pilocarpine. B. S. L. (3)

PONOMAREV, F.

Scientific Technical Society is striving for technical progress.  
Muk.-elev. prom. 25 no.11:5-8 N '59 (MIRA 13:3)

1. Tsentral'noye pravleniye Nauchno-tekhnicheskogo obshchestva  
mukomol'noy i krupyanoy promyshlennosti i elevatorskogo khozyaystva.  
(Grain elevators--Equipment and supplies)  
(Grain-milling machinery)

PONOMAREV, F., inzh.

Mechanized loading and unloading at grain receiving stations.  
Muk.-elev. prom. 26 no.10:14-16 0'60. (MIRA 13:10)

1. TSentral'noye pravleniye Nauchno-tekhnicheskogo obshchestva  
mukomol'noy i krupyanoy promyshlennosti i elevatorskogo khozyaystva.  
(Grain-handling machinery) (Loading and unloading)

1. PONOMAREV, F. A., GERMISHEVA, R. G.
  2. USSR (600)
  4. Trawls and Trawling
  7. Work practice of the small trawler "Solovetskiy." Ryb. khoz., 29, No. 2, 1953.
9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

PONOMAREV, F.F., inzh.

Defects in rolled metals produced by torsional vibrations in the transmission line for a finishing stand. Stal' 21 no.2:142-147 '61.

(MIRA 14:3)

1. Magnitogorskiy gorno-metallurgicheskiy institut.  
(Rolling mills—Vibrations)

/42

The synthesis and stereoisomeric forms of thiocyanato acetone oxime. E. G. Bonnemarie, D. M. Alpatov and N. P. Stepetov. *Acta Chim. Ussr.* 9, No. 3, 132-8 (in German 197-8) (1977). - When  $\text{ArCH}_2\text{CNS}$  is treated with  $\text{NH}_4\text{OH}$  in  $\text{BuOH}-\text{H}_2\text{O}$  it gives 77.4% of a yellow oil, m. 135°, which dissolves in alkalies with a red color. If  $\text{MeC}(\text{NOH})\text{CH}_2\text{Cl}$  in  $\text{BuO}$  or  $\text{EtOH}$  is shaken with sq.  $\text{Ba}(\text{SCN})_2$  or  $\text{KSCN}$  at 25-30°, it gives 90-95% of a colorless  $\text{MeC}(\text{NOH})\text{CH}_2\text{SCN}$ , m. 170° which gives colorless solns. in alkali. The latter is partly converted into the low-melting form when it is heated for several hrs. with  $\text{H}_2\text{O}$  or exposed to ultraviolet light. The compd. m. 135° is probably the anti-form and the other the syn. H. M. Leicester

The synthesis of symmetrical dithiocyanato- and chloro-thiocyanosocetone. V. G. Ponomarev. *Acta Univ. Timis-*  
*negrinus* 9, No. 3, 167-71 (in German 171) (1967).  
When an aq. KSCN is added in theoretical amt. to an  
EtOH soln. of  $(\text{CH}_3\text{Cl})_2\text{CO}$  at room temp., dithiocyan-  
acetone, m. 95-6°, ppt's. in 60-60% yield. If half quan-  
tities of KSCN are used, a 60-8% yield of chlorocyan-  
acetone, m. 84-5°, is obtained. Both compds. decom-  
pose when heated above 130°.  
H. M. Leicester

Chemical Abstracts

AS-A-SEA METALLURGICAL LITERATURE CLASSIFICATION

PONOMAREV F. G.

USSR/Chemistry - Formamide Derivatives Nov 50

"Reaction of Glycide and Its Esters With Acid Amides: II. Interaction of Glycidic Ester With Formamide," F. G. Ponomarev, S. F. Popov, Lab of Org Chem, Voronezh State U

"Zhur Obshch Khim" Vol XX, No 11, pp 2064-2068

Interaction of methyl and ethyl ethers of glycide with formamide yielded following products: N-propanol-2-methoxy-3-formamide, N, N-di-(propanol-2-methoxy-3)-form-amide, N-propanol-2-ethoxy-3-formamide, and N, N-di-(propanol-2-ethoxy-3)-formamide. These products were

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USSR/Chemistry - Formamide Derivatives Nov 50  
(Contd.)

formed with both a 1:1 ratio of reagents, excess of ester (1:2 ratio). Products were colorless liquids with characteristic and quite intensive odor, bitter taste.

170T23

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001342120003-5

CP

Reaction of glycidic and its ethers with acid anhydrides. II.  
Reaction of glycidic ethers with formamide. P. G. Ponocny,  
I. I. Serebryakov, and S. F. Popov. J. Gen. Chem. U.S.S.R. 20,  
2135-8 (1950) (Engl. translation).—See C.A. 45, 5620b.  
B. L. M.

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001342120003-5"

*Organic Chemistry*

Reaction of glycidic ester with acid anhydrides. III.  
Reaction of glycidic ester with acetamide. F. G. Ponocny (Veretensk State Univ.). *Zhur. Obshchii Khim.* (J. Gen. Chem.) 22, 128-34 (1952); cf. preceding *zatr.*—Saponification with  $\text{NaOH}$  or  $\text{KOH}$  at  $-10^\circ$  in the presence of  $\text{Et}_2\text{SO}_2$  gave 77.5%  $\alpha$ -glycidic ester (I), or 71%  $\beta$ -ester (II), after treatment of the products with  $\text{KOH}$ .  $\text{AcNH}_2$  (3.6 g.) and 6.5 g. I with 3 drops concd.  $\text{NaOH}$  heated in a sealed tube 10 hrs. at  $160-80^\circ$ , then chilled to  $-10^\circ$  to sep. the  $\text{AcNH}_2$  (30% recovered) with the aid of  $\text{H}_2\text{O}$ , gave on distn. of the  $\text{H}_2\text{O}$  soln. 33.7%  $N,N$ -bis(2-hydroxy-3-methoxy)acetamide,  $\text{AcN}(\text{CH}_2\text{CH}(\text{OH})\text{CH}_2\text{OMe})_2$ ,  $\text{mp} 130-85^\circ$ ,  $d_4^{20} 1.0775$ ,  $n_D^2 1.4482$ ; 36%  $\text{AcNHCH}_2\text{CH}(\text{OH})\text{CH}_2\text{OMe}$ ,  $\text{mp} 97-105^\circ$ ,  $d_4^{20} 1.0878$ ,  $n_D^2 1.4481$ ; and 2.8 g. polymeric matter. Reaction does not proceed without a  $\text{NaOH}$  catalyst. The polymer formed was a viscous liquid,  $\text{mp} 200-11^\circ$ ,  $d_4^{20} 1.094$ ,  $n_D^2 1.4460$ , which appears to be a product of the disubstituted amide reacting further with  $\frac{1}{2}$  mole of the ester. A similar  $\text{AcNH}_2$  with II gave 28.4%  $\text{AcNHCH}_2\text{CH}(\text{OH})\text{CH}_2\text{OBz}$ ,  $\text{mp} 129-81^\circ$ ,  $d_4^{20} 1.0808$ ,  $n_D^2 1.4480$ , 10%  $\text{AcN}(\text{CH}_2\text{CH}(\text{OH})\text{CH}_2\text{OBz})_2$ ,  $\text{mp} 165-70^\circ$ ,  $d_4^{20} 1.0820$ ,  $n_D^2 1.4471$ , and a small amt. of polymer,  $\text{mp} 20-30^\circ$ ,  $d_4^{20} 1.0897$ ,  $n_D^2 1.4480$ , similar to that from I.

Heating 5.6 g.  $\text{EtSO}_2\text{NH}_2$  with 9 g. I and a trace of  $\text{NaOH}$  as above gave 1.8 g.  $\text{EtSO}_2\text{NHCH}_2\text{CH}(\text{OH})\text{CH}_2\text{OMe}$  and 1 g.  $\text{EtSO}_2\text{N}(\text{CH}_2\text{CH}(\text{OH})\text{CH}_2\text{OMe})_2$ , both liquids that cannot be distd. without decompa. Products from a similar reaction with II could not be characterized. G. M. Kosolapoff

PONOMAREV, F. G.

chem ② 7

Chemical Abst.  
Vol. 48 No. 5  
Mar. 10, 1954  
Organic Chemistry

The reaction of glycidol and its ethers with acid amides.  
IV. The reaction of glycid ethers with formamide and  
acetamide. F. G. Ponomarev (Voronezh State Univ.).  
*J. Gen. Chem. U.S.S.R.* 22, 935-9 (1952) (Engl. translation).  
See *C.A.* 47, 3794f. H.L.H.

PONOMAREV, F. G.

Reaction of ether oxides with ammonia and diethyldiamine  
F. G. Ponomarev, Voznesensk State Univ., Dzharyl Amanov

Nauk S.S.R.A., 67, 606-111 (1982). — Reaction of 3-alkoxy-  
1,2-epoxypropanes with NH<sub>3</sub> occurs, even at room temp.,  
at 1:1 ratio the products are HN[CH<sub>2</sub>CH(OH)CH<sub>2</sub>OR]<sub>2</sub> and  
N(CH<sub>2</sub>CH(OH)CH<sub>2</sub>OR)<sub>2</sub>, while at ratios of 1:5 to 1:100 the  
main product is H<sub>2</sub>NCH<sub>2</sub>CH(OH)CH<sub>2</sub>OR (I). Thus were  
obtained the following I (R, b.p., dm, °B): Me, bp 101-3°,  
1.0604, 1.4580; Et, bp 105-7°, 1.0380, 1.4580; *isop*-Pr, bp  
110-12°, 0.9884, 1.4535; Bu, bp 133-5°, 0.9742, 1.4530.  
Aq. Et<sub>4</sub>NH 33%, 3 hrs. at 100° or 3 days at room temp.,  
gave 62-78% Et<sub>2</sub>N-CH<sub>2</sub>CH(OH)CH<sub>2</sub>OMe, bp 75-77°, 0.0221,  
1.4390 (*Ac* deriv., bp 82-5°, 0.9817, 1.4340; picrate of free  
base, m. 157°); *EtO* analog, bp 81-5°, 0.9100, 1.4350; *isop*-  
*PrO* analog, bp 87-9°, 0.8958, 1.4348; *BuO* analog, bp  
100-2°, 0.8864, 1.4340. H<sub>2</sub>NCH<sub>2</sub>CH(OH)CH<sub>2</sub>OMe picrate  
m. 97-8°.

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organic Chemistry

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001342120003-5

PONOMARENKO

USSR.

Reaction of iodide and others with acids  
V Reaction of  $\text{C}_6\text{H}_5\text{CH}_2\text{I}$  with acids  
Iodides

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CIA-RDP86-00513R001342120003-5"

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CIA-RDP86-00513R001342120003-5

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CIA-RDP86-00513R001342120003-5"

PONOMAREV, F. G.

④ 7

VI. Reaction of ether oxides with nitrogenous compounds.  
diethylamine. F. G. Ponomarev (Veronich State Univ.).  
*Zhur. Osnchel. Khim.* 23, 1040-9 (1957); cf. *C.A.* 48,  
7548a.—Powd. KOH (1.2 moles) in 250 ml. abs. Et<sub>2</sub>O slowly  
treated over 1.5 hrs. with 1 mole CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>(OH)CH<sub>2</sub>OH  
gave after 1 hr. at 50-60° 65% *MeOCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>O* (I) and  
62% *EIO* analog (II), resp. (the description of the prepn.  
is incomplete). To 15 g. I, b. 110-12°,  $n_{D}^{20}$  1.4042, (15  
g.) treated with 37 g. Et<sub>2</sub>NH in 75 ml. H<sub>2</sub>O (temp. rise  
to 60°) gave after 3 hrs. on a steam bath 78.4% *EiNCH<sub>2</sub>CH<sub>2</sub>*  
(OH)CH<sub>2</sub>OMe (III), b. 75-7°, d<sub>4</sub> 0.9221,  $n_{D}^{20}$  1.4390; a  
reaction run 6 hrs. at 125-30° gave a 65-8% yield; 72 hrs. at  
room temp. with excess amine gave 48%; lower yields  
result from smaller amine ratios and shorter reaction periods.  
III forms: a *picrate*, m. 163°; *ethiodide*, m. 90-7°; *HCl*  
*salt*, viscous mass; *acetate* (by reaction of the amino alc.  
with Ac<sub>2</sub>O and trace of H<sub>2</sub>SO<sub>4</sub>), b. 82-4°, d<sub>4</sub> 0.9817,  $n_{D}^{20}$   
1.4340. Heating 17 g. II with 30.5 g. Et<sub>2</sub>NH in 74 g. H<sub>2</sub>O  
3 hrs. on a steam bath similarly gave 80% *EiNCH<sub>2</sub>CH<sub>2</sub>*  
(OH)CH<sub>2</sub>OE<sub>t</sub>, b. 84-5°, d<sub>4</sub> 0.9100,  $n_{D}^{20}$  1.4390; reaction  
5 hrs. at 125-30° gave a 62.9% yield (1 hr. 56%). A 57%  
yield was obtained after 72 hrs. at room temp. with 2 moles  
amine; *picrate*, m. 83°, apparently a dihydrate which is very  
stable; *ethiodide*, an oil; *chloroaurate*, obtained only in crude  
state; *acetate*, b. 95-7°, d<sub>4</sub> 0.9420,  $n_{D}^{20}$  1.4370, also impure.  
G. M. Kosolapoff

USSR:

✓Reaction of ether oxides with nitrogenous compounds  
VI. Reaction of methyl and ethyl ethers of glycidol with  
diethylamine. P. G. Ponomarev. J. Gen. Chem. U.S.  
S.R. 23, 1099-1102(1953)(Engl. translation).—See C.A. 48,  
N. L. H.—  
81746.

LITERATURE REPORT

Reaction of ether oxides with nitrogenous compounds.  
VII. Reaction of isopropyl and butyl ethers of glycidol  
with diethylamine. V. O. Ponomarev and V. G. Polosukhina (Voronezh State University), Zhurnal Russkoj Khim. 23,  
1888-41 (1953); cf. C.A. 48, 6174r. -iso-Pr glycidyl ether  
(17.5 g.) treated with 33 g. Et<sub>2</sub>NH and 58 ml. H<sub>2</sub>O, the  
mixt. kept on a water bath 3 hrs., the upper layer  
sepd., the aq. layer satd. with KOH, and the resulting oil  
combined with the material of the original upper layer, and  
distd. yielded 80% *EtiNCH<sub>2</sub>CH(OH)CH<sub>2</sub>OP-410*, b.p.  
93-5°, d<sub>25</sub> 0.9856, n<sub>D</sub><sup>25</sup> 1.4348. A similar reaction at room  
temp. gave a 73% yield after 72 hrs. A lesser proportion of  
Et<sub>2</sub>NH reduces the yield. The product cannot be distd. at  
atm. pressure and is hygroscopic. *Picrate* m. 168-4°  
(from abs. EtOH); *acetate* (by treatment with Ac<sub>2</sub>O) b.p.  
88°, d<sub>25</sub> 0.9363, n<sub>D</sub><sup>25</sup> 1.4328. The structure of the product  
was confirmed by its synthesis in 72.6% yield from iso-  
PrOCH<sub>2</sub>CH(OH)CH<sub>2</sub>Cl and a 3-fold excess of Et<sub>2</sub>NH in a  
sealed tube after 4 hrs. at 100°. Similarly, 25 g. Bu glycidyl  
ether and 36.5 g. Et<sub>2</sub>NH in 75 ml. H<sub>2</sub>O heated on water bath  
3 hrs. gave 74-75% *EtiNCH<sub>2</sub>CH(OH)CH<sub>2</sub>OBu*, b.p. 118-19°, d<sub>25</sub>  
0.9864, n<sub>D</sub><sup>25</sup> 1.4344 (distillable at 180-5° but with much de-  
compr.). A 64% yield resulted from a similar reaction at  
room temp. in 72 hrs. *Picrate* m. 160-7° (from abs.  
EtOH); *acetate* b.p. 112-13°, d<sub>25</sub> 0.9277, n<sub>D</sub><sup>25</sup> 1.4344. The  
same amino ether, b.p. 120-1°, was prep'd. in 74.9% yield  
from Et<sub>2</sub>NH and BuOCH<sub>2</sub>CH(OH)CH<sub>2</sub>Cl after 6 hrs. in a  
sealed tube at 100°.

G. M. Kosolapoff

PONOMAREV, F. G.

USSR/ Chemistry Isomerization

Card : 1/1 Pub. 151 - 16/33

Authors : Ponomarev, F. G.

Title : Investigation of non-symmetrical organic alpha-oxides. Part 8.-  
Isomerization of isopropyl glycide ester and its reaction with ammonia

Periodical : Zhur. ob. khim. 24/8, 1371 - 1374, August 1954

Abstract : The isomerization of isopropyl glycide ester under the effect of  $Al_2O_3$  and  $ZnCl_2$  and the reaction of the latter with ammonia, were investigated. The isomerization products, obtained during the participation of above mentioned catalysts, are described. Data regarding the reaction of isopropyl glycide ester with aqueous and alcohol ammonia solutions and the products derived from this reaction, are included. Thirteen references: 10 USSR; 1 USA; 1 French and 1 German (1903 - 1953). Table.

Institution : State University, Voronezh

Submitted : December 22, 1953

PONOMAREV, F.G.

USSR/ Chemistry - Isomerization

Card 1/1 : Pub. 22 - 22/44

Authors : Ponomarev, F. G.

Title : Isomeric conversions of acid esters

Periodical : Dok. AN SSSR 98/1, 87-88, Sep 1, 1954

Abstract : The isomerization of acid esters under the effect of  $\text{Al}_2\text{O}_3$  and  $\text{ZnCl}_2$ , was investigated at temperatures ranging from 125 to 300°. The isomerization products obtained and their characteristics are described. It was found that the substances obtained contain admixtures of isomeric ketones, the presence of which was confirmed by their reaction with sodium nitroprusside. Four USSR references (1903-1953). Table.

Institution : State University, Voronezh

Presented by : Academician I. N. Nazarov, April 26, 1954

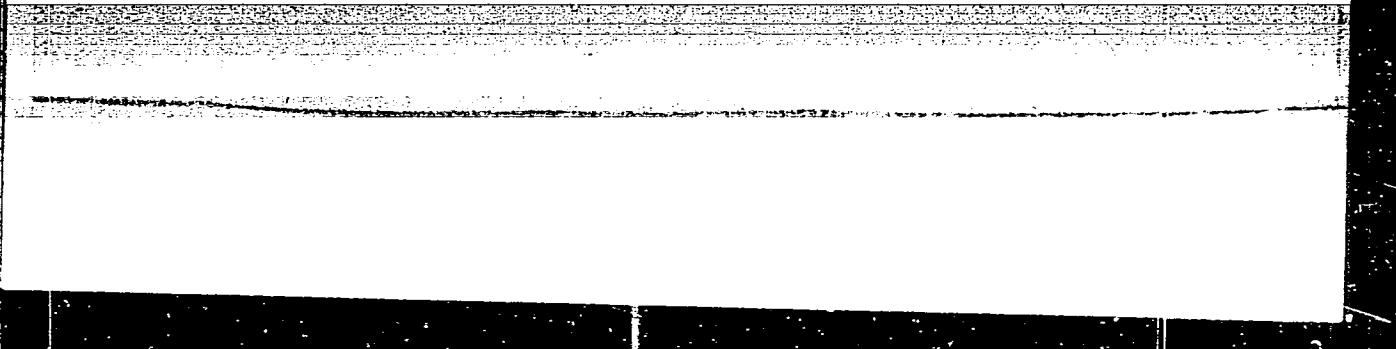
PONOMAREV, F.G.; CHERKASOVA, L.N.; CHERNYSHEVA, R.M.

Research in the field of asymmetric organic  $\alpha,\omega$ -oxides. Part 11.  
Isobutyl glycidol ether and its conversions. Zhur. ob. khim. 25  
no. 9:1753-1757 S '55. (MLRA 9:2)

1.Veronezhskiy gosudarstvennyy universitet.  
(Ethers)

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001342120003-5



APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001342120003-5"

PCNOMAREV, F.G.; ZABROVSKAYA, V.F.; ALEKSEYEVA, L.K.

Chelate bonds in  $\gamma$ -lactones. Zhur. ob. khim. 34 no.9:3133-3164.  
(MIRA 17:11)

1. Voronezhskiy gosudarstvennyy universitet.

PONOMAREV, Fedor Gavrilovich; SOLOVEYCHIK, Mikhail Zakharovich;  
SHISHLYKOV, Ye.S., red.

[Aid for ticket and baggage cashiers] Posobie biletno-  
bagazhnому kassiru. Moskva, Transport, 1965. 263 p.  
(MIRA 18:3)

PONOMAREV, F.G.; KOPTEVA, N.I.; SHCHETININA, G.I.

Nonsymmetrical organic  $\alpha$ -oxides. Part 23: Condensation of  
glycidol ethers with sodium acetoacetic ester. Zhur. ob.  
khim. 34 no. 5:1502-1506 My '64. (MIRA 17:7)

1. Voronezhskiy gosudarstvennyy universitet.

PONOMAREV, F.G., otv. za vypusk; VOROTNIKOVA, L.F., tekhn. red.

[Tables of transportation rates for passengers, luggage,  
and passenger train freight effective from January 1, 1961]  
Raschetnye tablitsy stoinosti proezda passazhirov, perevozki  
bagazha i gruzobagazha. Vvedeny s 1 janvaria 1961 g. Mo-  
skva, Transzhel'dorizdat, 1963. 56 p. (MIRA 16:7)

1. Russia (1923- U.S.S.R.) Glavnoye passazhirskoye upravle-  
niye.

(Railroads--Rates)

PONOMAREV, F.G., o<sub>v</sub>. za vypusk; KANDYKIN, A.Ye., tekhn. red.

[Tables for calculating costs for the transportation of passengers, baggage, and fast freight; based on rates effective from August 16, 1948] Raschetnye tablitsy stoinosti proezda passazhirov, perevozki bagazha i tovarobagazha (gruza passazhirskoi skorosti) po zheleznym dorogam; sostavleny po tarifam, ustanovленным с 16 avgusta 1948 g. Moskva, Gos. transp. zhel-dor. izd-vo, 1954. 51 p.  
(MIRA 14:7)

1. Russia(1923- U.S.S.R.) Glavnaya passazhirskaya upravleniya.  
(Railroads—Rates)

PONOMAREV, F.G., otv. za vypusk; BOBROVA, Ye.N., tekhn. red.

[Tables for the calculation of railroad transportation rates for passengers, luggage, and freight; supplement to collection No.120; effective as of January 1, 1961] Raschetnye tablitsy stoinosti proezda passazhirov, perevozki bagazha i gruzobagazha po zheleznym dorogam; prilozhenie k sborniku No.120. Vvoditsia s 1 ianvaria 1961 g. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniya, 1961. 56 p. (MIRA 14:7)

1. Russia (1923- U.S.S.R.) Glavnaya passazhirskaya upravleniye  
(Railroads—Rates)

3  
7-8a8(NB)

Unsymmetrical organic  $\alpha$ -oxides. XVI. Hydration of  $\alpha$ -oxides in the presence of sulfuric acid. F. G. Ponomarev (State Univ., Voronezh). Sbornik Trudov Voronezh. Otdel. Vsesoyuz. Khim. Obshchestva im. D. I. Mendeleva 1957, No. 1, 199-202; cf. CA 52, 3770b; 54, 12633a.—The reaction of

RCH<sub>2</sub>CH<sub>2</sub>O (I) with 1% aq. H<sub>2</sub>SO<sub>4</sub> in a sealed tube was studied to det. relative reactivities and yields of glycols RCH(OH)CH<sub>2</sub>OH (II). Data were listed for the following I, in order of decreasing reactivity (R, b.p./mm., d<sub>20</sub>, and n<sub>D</sub><sup>20</sup> given): H, —, —, —; ClCH<sub>2</sub>, —, —, —; Ph, 78-81°/12, 1.0592, 1.5390; HOCH<sub>2</sub>, 65-7°/15, 1.1099, 1.4290; BuOCH<sub>2</sub>, 164-6°/760, 0.9104, 1.4141; iso-BuOCH<sub>2</sub>, —, —, —; iso-PrOCH<sub>2</sub>, 131-2°/760, 0.9238, 1.4101; MeCH<sub>2</sub>OCH<sub>2</sub>CH, —, —, —; MeCH:CH, 102-4°/760, 0.8881, 1.4330; CH<sub>2</sub>:CH, 65-7°/760, 0.8720, 1.4169; PhCH<sub>2</sub>OCH<sub>2</sub> (III), 78-80°/10, 1.0960, 1.5379. The following II were obtained (R, % yield, b.p./mm., d<sub>20</sub>, and n<sub>D</sub><sup>20</sup> given): H, 83, —, —, —; Ph, 62.8, —(m. 65-7°), —, —; HOCH<sub>2</sub>, 60, —(m.p. of glyceryl tribenzoate 75-8°), —, —; BuOCH<sub>2</sub>, 52.7, —, —, —; iso-PrOCH<sub>2</sub>, 23, 87-90°/33, 1.0320, 1.4438; MeCH<sub>2</sub>OCHCH:CH, 16.1, —, —, —; MeCH:CH, 16, 107-9°/20, 1.0150, 1.4683; CH<sub>2</sub>:CH, 11, 84-6°/10, 1.0460, 1.4615. III did not react until heated to 120-40° for many hrs. The oxides were prep'd. from the chlorohydrins.

P. M. Laughton

PONOMAREV, F.G.; YESIPOVA, L.G.; LAMTEVA, O.G.; MIZILINA, M.G.; FARBEROVA,  
B. Sh.

Unsymmetrical organic  $\alpha$ -oxides. Some conversions of  $\alpha$ -oxides.  
Trudy VGU 49:9-14 '58.  
(Oxides) (MIRA 13:5)

PONOMAREV, F.G., otv. za vypusk; BOBROVA, Ye.N., tekhn.red.

[Regulations for railroad transportation of passengers and freight in the U.S.S.R.; Rates manual no.5, effective as of April 1, 1955] Pravila perevozok passazirov i bagazha po zheleznym dorogam Soiuza SSSR; tarifnoe rukovodstvo no.5. Vvedeny v deistvie s 1 aprelia 1955 g. Izd.3., ispr. i dop. soglasno Sbornikam pravil perevozok i tarifov zheleznodorozhного transporta po no.99 vkluchitel'no. Moskva, Gos.transp. zhel-dor.izd-vo, 1960. 167 p. (MIRA 13:4)

1. Russia (1923- U.S.S.R.) Ministerstvo putey soobshcheniya.  
(Railroads--Rates)

PONOMAREV, F.G.; VODOP'YANOVA, Ye.A.

Isomerization of butadiene oxide. Nauch.dokl.vys.shkoly;  
khim.' i khim.tekh. no.2:316-317 '59. (MIRA 12:8)

1. Predstavlena kafedroy organicheskoy khimii Voronezhskogo  
gosudarstvennogo universiteta.  
(Butadiene) (Isomerization)

AUTHORS: Ponomarev, F. G., Mosichkin, Yu. N. SOV/79-28-8-53/66

TITLE: Investigations Concerning the Unsymmetrical Organic  $\alpha$ -Oxides  
(Issledovaniya v oblasti nesimmetrichnykh organicheskikh  
 $\alpha$ -okisey) XVII. Decomposition Reaction of the Piperylene Oxides  
With Sodium Acetoacetic Ester (XVII. Vzaimodeystviye okisey  
piperilena s natriyatsetouksusnym efirom)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol. 28, Nr 8,  
pp. 2257 - 2259 (USSR)

ABSTRACT: In continuing their investigations of the various chemical reactions of the piperylene oxides (Ref 1) the authors describe in this paper the experimental results of condensing sodium acetoacetic ester with 1,2-epoxypentene-3 (I) and 2,3-epoxypentene-4 (II). The products of these reactions, the unsaturated  $\gamma$ -lactones, are not described in publications. They also show physiological activity, like other compounds which have a butyrlactone group (Refs 2-4). It is known that the combination of the sodium acetoacetic ester with 1,2-epoxybutene-3 obviously does not follow Markovnikov's rule, but results in the formation of two isomeric lactones

Card 1/3

Investigations Concerning the Unsymmetrical Organic SOV/79-28-8-53/66  
 $\alpha$ -Oxides. XVII. Decomposition Reaction of the Piperylene Oxides With  
Sodium Acetoacetic Ester

(a) and (b) the structures of which have been determined (Ref 5),  
(Formulas a and b). As in the case of the 1,2-epoxybutene-3,  
the 1,2-epoxypentene-3 (I) condenses with sodium acetoacetic  
ester to yield a mixture of lactones, to which, by analogy,  
can be assigned the formulas (III) and (IV)(Reaction diagram).  
From theoretical considerations the preponderant formation  
of lactone (III) can be expected, whereas compound (II) leads  
to the formation of lactone (V)(see the last reaction diagram).  
The double bond was demonstrated to be present in the lactone  
(V) by oxidizing with permanganate. Formic acid was found in  
the oxidation products. There are 8 references, 7 of which  
are Soviet.

ASSOCIATION: Voronezhskiy gosudarstvennyy universitet (Voronezh State Uni-  
versity)

SUBMITTED: July 9, 1957  
Card 2/3

Investigations Concerning the Unsymmetrical Organic  
 $\alpha$ -Oxides. XVII. Decomposition Reaction of the Piperylene Oxides With  
Sodium Acetoacetic Ester

SOV/79-28-8-53/66

Card 3/3

USSR/Diseases of Farm Animals - Diseases Caused by Bacteria  
and Fungi.

R-2

Abs Jour : Ref Zhur- Biol., No 11, 1958, 50185  
Author : Ponomarev, F.G.  
Inst : Novocherkassk Zootechnical and Veterinary Institute.  
Title : Tuberculosis in Dogs.  
Orig Pub : Tr. Novocherkasskogo zootekhn.-vet. in-ta, 1957, vyp. 10,  
289-296  
Abstract : Tuberculosis (T) was produced in dogs by artificially induced infection with a T culture of the bovine type, or else through contact with sick dogs and T afflicted large horned cattle; also, by being allowed to take in sputum of people sick with T. Dogs resist infection if the causative agent is T of domesticated birds; however, they may become infected by hens which are sick with the bovine

Card 1/2

- 18 -

PONOMAREV, F.G.; MOSICHKIN, Yu.M.

Unsymmetric organic  $\alpha$ -oxides. Part 17: Interaction of piperylene  
oxides with sodium acetoacetic ester. Zhur. ob. khim. 28 no. 8:2257-  
2259 Ag '58. (MIRA 11:10)

1. Voronezhskiy gosudarstvennyy universitet.  
(Acetoacetic acid)  
(Pentadiene)

PONOMAREV, F.G., otvetstvennyy za vypusk; VERINA, G.P., tekhn.red.

[Tables for the calculation of passenger, baggage and express freight costs] Raschetnye tablitsy stoinosti prozda passazhirov, perevozki bagazha i gruzobagazha po zheleznym dorogam; vvodiatysya s 1 maia 1958 g. Dopolnenie k tarifnomu rukovodstvu no.5. Moskva, Gos. transp.zhel-dor. izd-vo, 1958. 51 p. (MIRA 11:6)

1. Russia (1953- U.S.S.R.) Glavnaya passazhirskaya upravleniya.  
(Railroads--Rates)

PONOMAREV, F.G.

BABICHIN, P.I.; KUDROV, V.S.; PONOMAREV, F.G.; SHAVKIN, G.B., inzhener,  
redaktor; KHITROV, P.A., "tekhnicheskii" redaktor.

[Handbook for supervisors of passenger trains] Pamiatka kontroli-  
ruiushchemu passazhirskii poezd. Moskva, Gos. transp. zhel-dor. izd-  
vo, 1953. 153 p. [Microfilm] (MLRA 7:11)  
(Railroads--Passenger traffic)

POBOMAREV, F.G., kandidat veterinarnykh nauk.

Role of dogs in the epizootiology of tuberculosis. Veterinariia 32  
no. 12:39-40 D '55. (MIRA 9:4)

1. Novecherkasskiy zooveterinarnyy institut.  
(TUBERCULOSIS IN ANIMALS)(DOGS AS CARRIERS OF DISEASE)

Ponomarev, F.G.

E-2

USSR/Organic Chemistry - Synthetic Organic Chemistry

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4255

Author : Ponomarev, F.G., Vodop'yanova, Ye.A., Red'kina, L.P.

Inst : Voronezh University

Title : Investigation of Asymmetrical Organic Alpha-Oxides. X.  
Isomerization, Hydration of Isoamyl Glycide Ether and  
Its Interaction with Diethylamine, Acetone and Methanol.

Orig Pub : Tr. Voronezhsk. un-ta, 1955, 42, No 2, 49-52

Abstract : Investigation of the properties and conversions of  
 $\text{iso-C}_5\text{H}_{11}\text{OCH}_2\text{CHCH}_2\text{O}$  (I). By interaction of epichlor-  
hydrin with a 6-fold excess of absolute iso- $\text{C}_5\text{H}_{11}\text{OH}$  in  
the presence of  $\text{PF}_3\text{O}(\text{C}_2\text{H}_5)_2$  (II) (0.3% of  
the sum of reactants) was obtained iso- $\text{C}_5\text{H}_{11}$ -  
 $\text{OCH}_2\text{CHCH}_2\text{Cl}$  (III), BP 215-216°, 103-105°/14 mm,  
 $n^{20}\text{D}$  1.4430,  $d_4^{20}$  1.0520. 0.08 mole of II are added

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## USSR/Organic Chemistry - Synthetic Organic Chemistry

E-2

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4255

drop-wise to a heated concentrated solution of KOH (40% excess), continuously distilling off, at 10-15 mm, the I thus formed; yield of I 79%, BP 188-190°, 95-96°/20 mm,  $n^{20}_{D}$  1.4276,  $d_4^{20}$  0.9414. On action of powdered KOH in ether on III (2 hours with stirring) I was obtained with a yield of 80%. 0.07 mole I were passed over  $Al_2O_3$  (60% of the amount of I) at 300° and at a rate of 2-3 drops per minute, and on fractionation there were obtained 55% of unchanged I, 28% iso- $C_5H_{11}OCH_2CH_2CHO$  (IV) (BP 120-130°) and a small amount of iso- $C_6H_{11}OCH_2COCH_3$ . IV is oxidized by a 1% solution of  $KMnO_4$  to iso- $C_5H_{11}OCH_2CH_2COOH$ . 6 g I, 20 ml water and 0.5 mole  $H_2SO_4$  are heated 6.5 hours at 120° and after 20 days ( $\sim 20^\circ$ ) the mixture is distilled, yield of iso- $C_5H_{11}OCH_2CHOHCH_2OH$  (V) is 30%. Under milder conditions I undergoes no cleavage. 0.05 mole I, 0.15 mole  $(C_2H_5)_2NH$

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5(3)

SOV/156-59-2-25/48

AUTHORS: Ponomarev, F. G., Vodop'yanova, Ye. A.

TITLE: The Isomerization of Divinyl Oxide (Izomerizatsiya okisi divinila)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya tekhnologiya, 1959, Nr 2, pp 316-317 (USSR)

ABSTRACT: The reaction mentioned in the title was carried out on aluminum oxide at 350°. It was found that the isomerization proceeds in two directions: vinyl acetaldehyde and methyl-vinyl ketone form at the ratio of 1 : 4. The formation of an excessive quantity of ketone is explained by its higher stability owing to the conjugate double bond (C=C and C=O). The total amount of the forming carbonyl compounds was determined by means of the oxime method. The separation of aldehyde and ketone was brought about by passing over of the aldehyde on wet silver oxide into the silver salt of vinyl acetic acid. The ketone was identified as semi-carbazone. There are 2 references, 1 of which is Soviet.

ASSOCIATION: Kafedra organicheskoy khimii Voronezhskogo gosudarstvennogo universiteta im. N.G. Chernyshevskogo (Chair of Organic Chemistry, Saratov State University imeni N. G. Chernyshevskiy)  
Card 1/2

The Isomerization of Divinyl Oxide

SOV/156-59-2-25/48

(Chair of Organic Chemistry, Voronezh State University)

SUBMITTED: October 20, 1958

Card 2/2

PONOMAREV, F.G., otv. za vypusk; KHITROV, P.A., tekhn.red.

[Calculation tables of railroad transportation rates for passengers, baggage, and freight; supplement to collection No.99; effective as of January 1, 1960] Raschetnye tablitsy stojmosti proezda passazhirov, perevozki bagazha i gruzobagazha po zheleznym dorogam; prilozhenie k sborniku no.99. Vvoditsia s 1 ianvaria 1960 g. Moskva, Gos.transp. zhel-dor.izd-vo, 1959. 59 p. (MIRA 13:1)

1. Russia (1923- U.S.S.R.) Glavnaya passazhirskaya upravleniye.  
(Railroads--Rates)

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001342120003-5

PONOMAREV, F.I.

Method for refining trap oil. Nefteprom. delo no. 2127-28 '63  
(MIRA 1787)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001342120003-5"

PONOMAREV, G.

Regional technical conference. Avt. transp. 36 no.10:44 0 '58.  
(MIRA 13:1)

1.Instruktor Smol'ninskogo raykoma Kommunisticheskoy partii Sovetskogo  
Soyuza Leningrada.  
(Transportation, Automotive--Congresses)

NIKIFOROV, N.A.; PAVLYUKOVICH, Ye.A.; PONOMAREV, F.I.

Regularities in the location of high-grade mercury and antimony ores  
in deposits of southern Fergana. Zakonom. razm. polezn. iskop. 5:207-228  
'62. (MIRA 15:12)

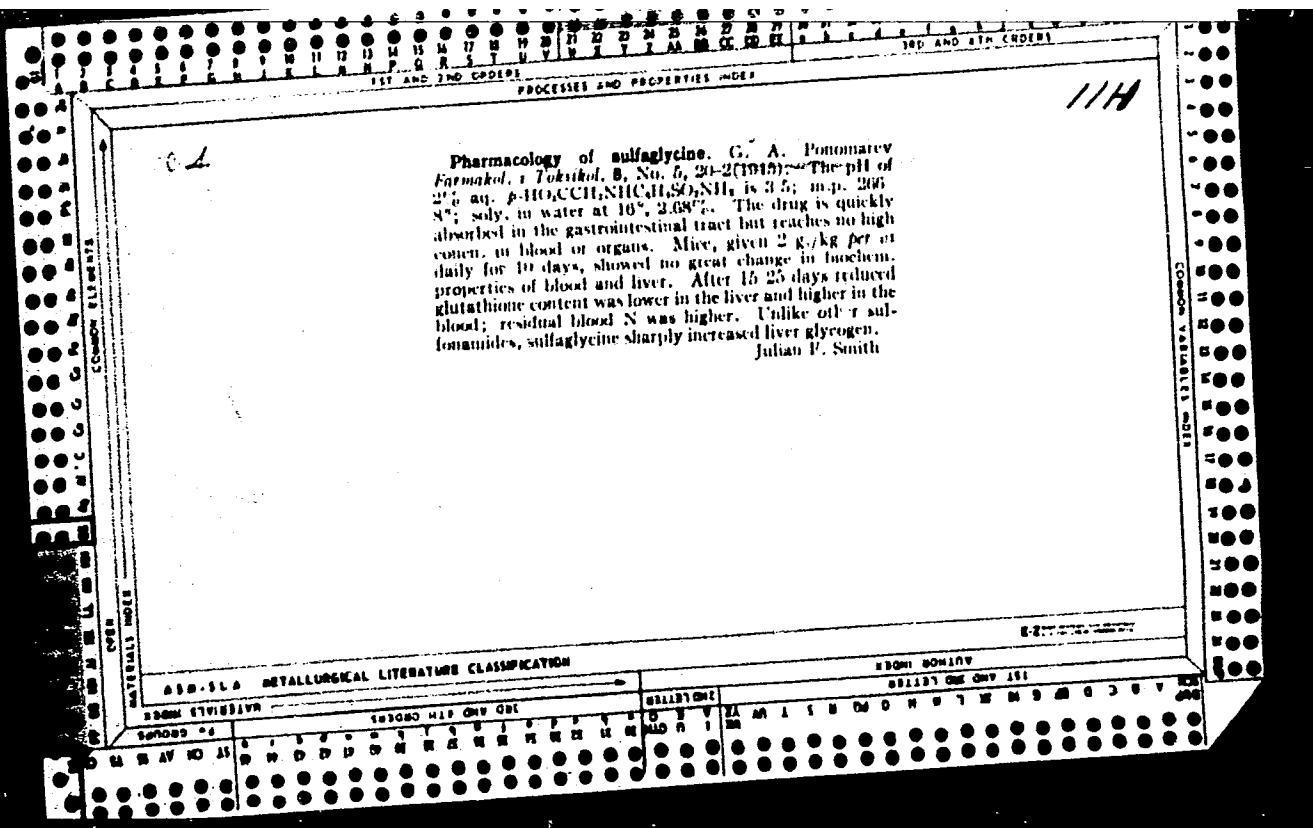
1. Yuzhno-kirgizskiy gorno-metallurgicheskiy kombinat i Sredno-  
Aziateskiy politekhnicheskiy institut.  
(Fergana—Antimony ores) (Fergana—Mercury ores)

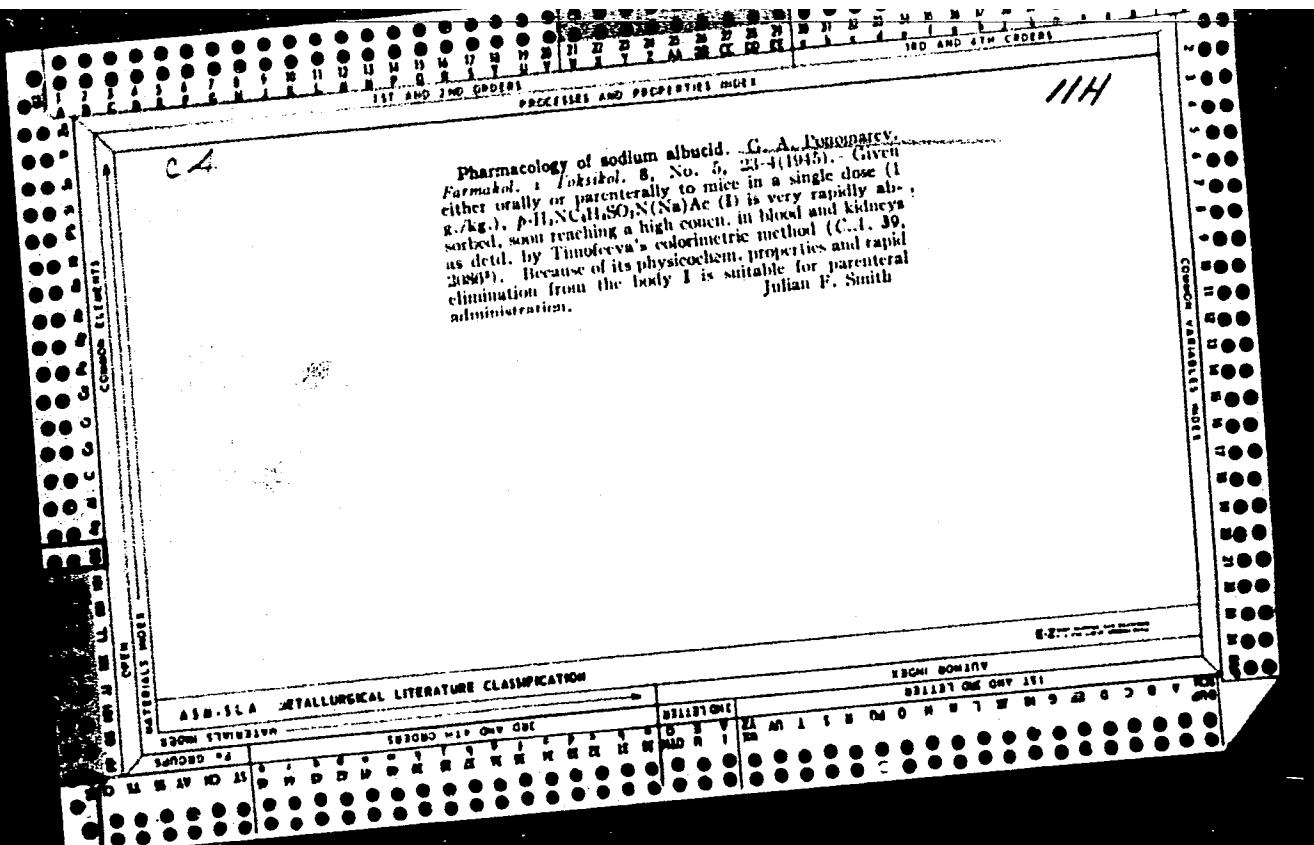
PONOMAREV, G. (Gerlits-Zgorzeleca)

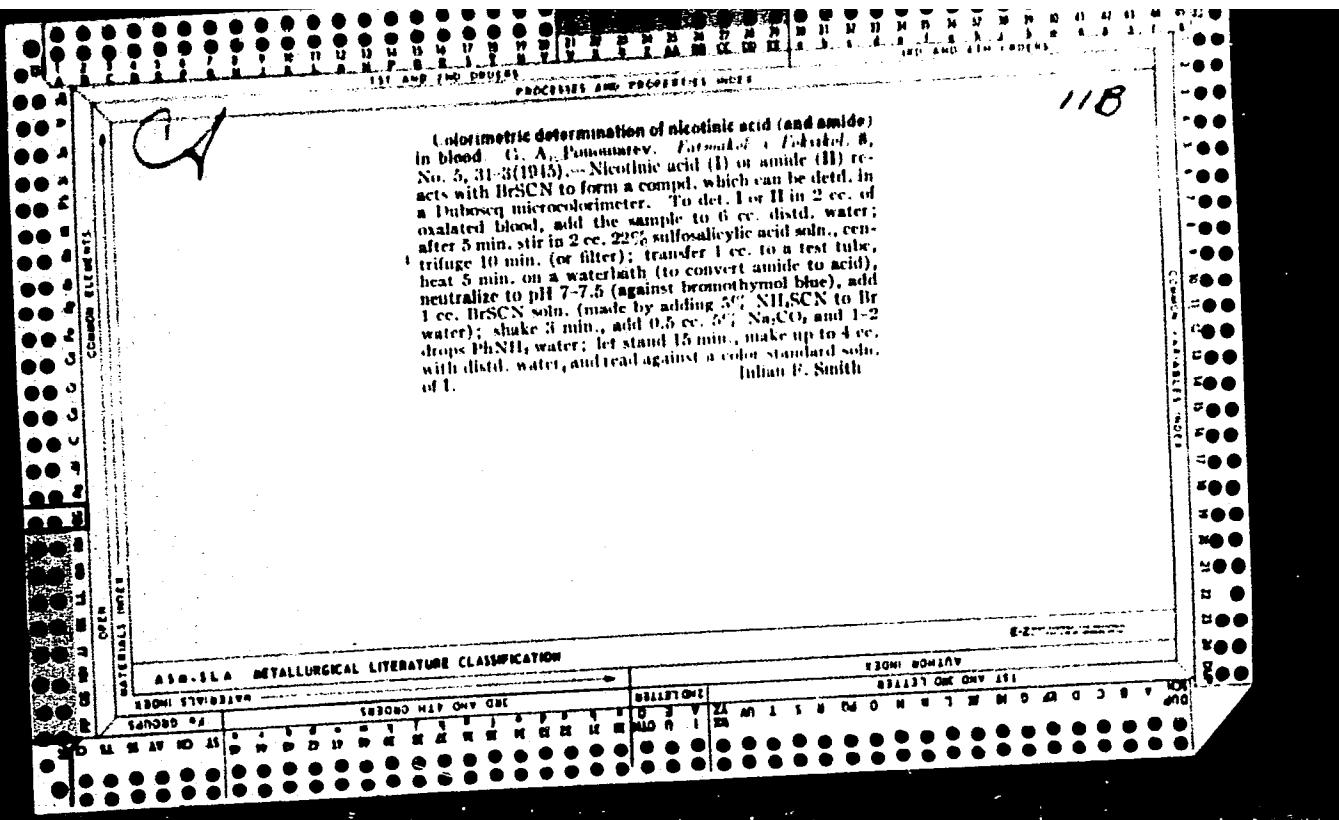
Voice of the workers of Europe. Sov. profsoiuzy. 7 no.11:53-55  
(MIRA 12:9)

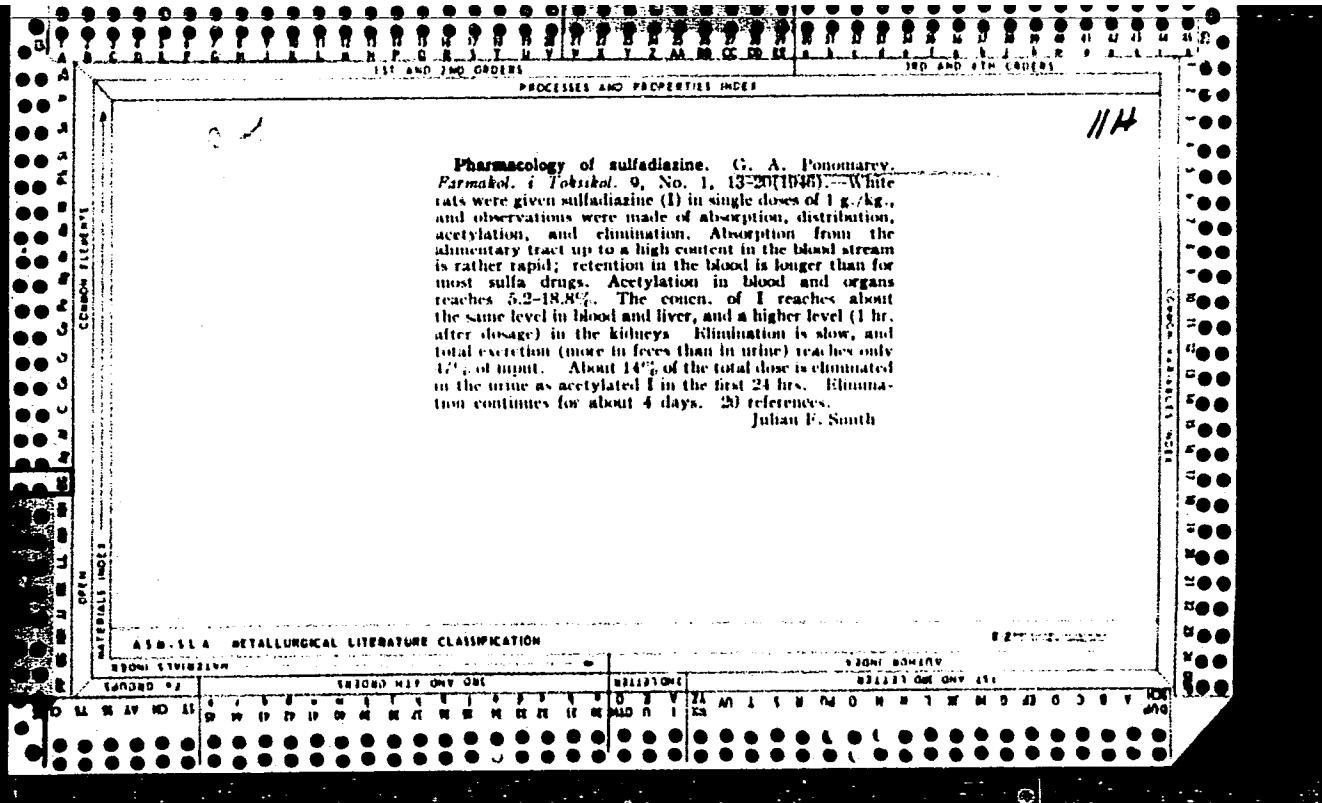
Ja '59.

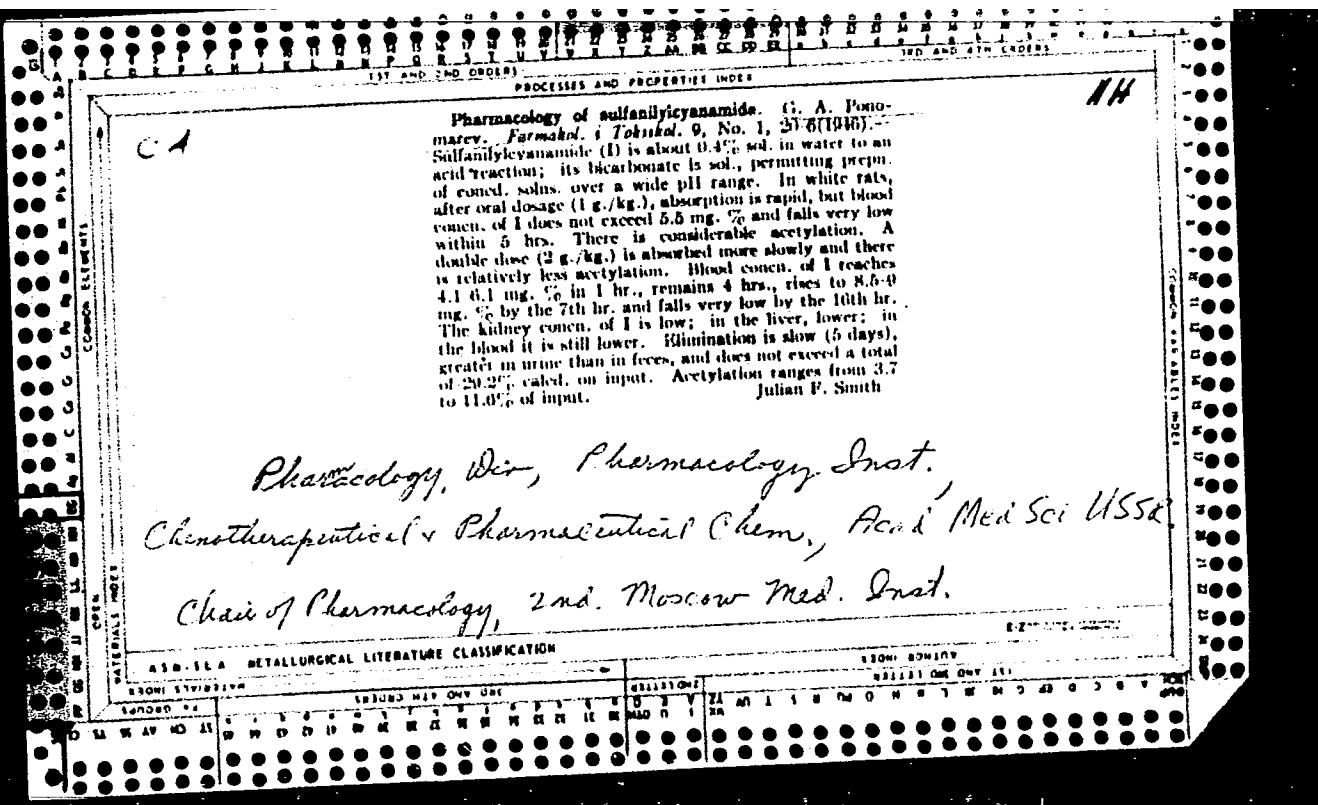
(Gorlitz, Germany--Trade unions--Congresses)  
(Zgorzelec, Poland--Trade unions--Congresses)

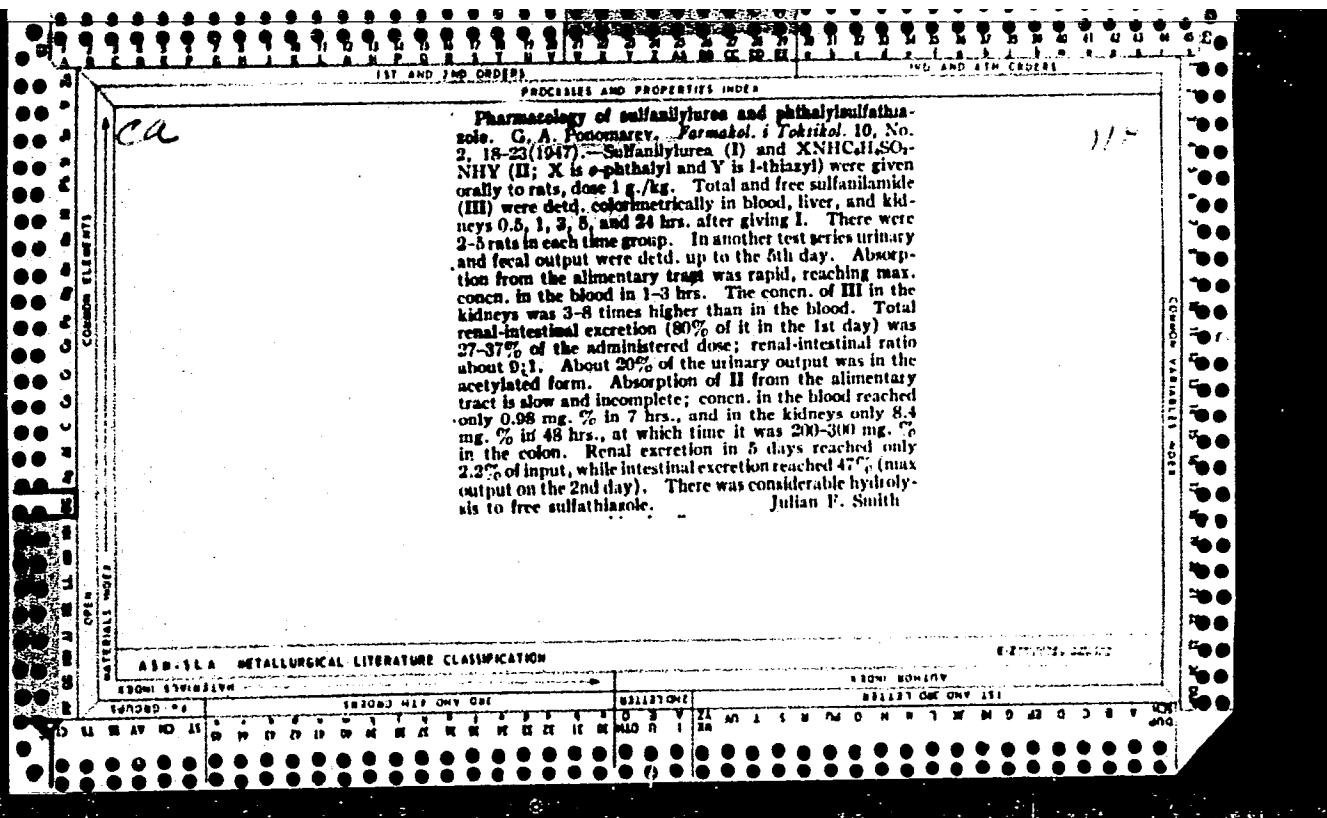


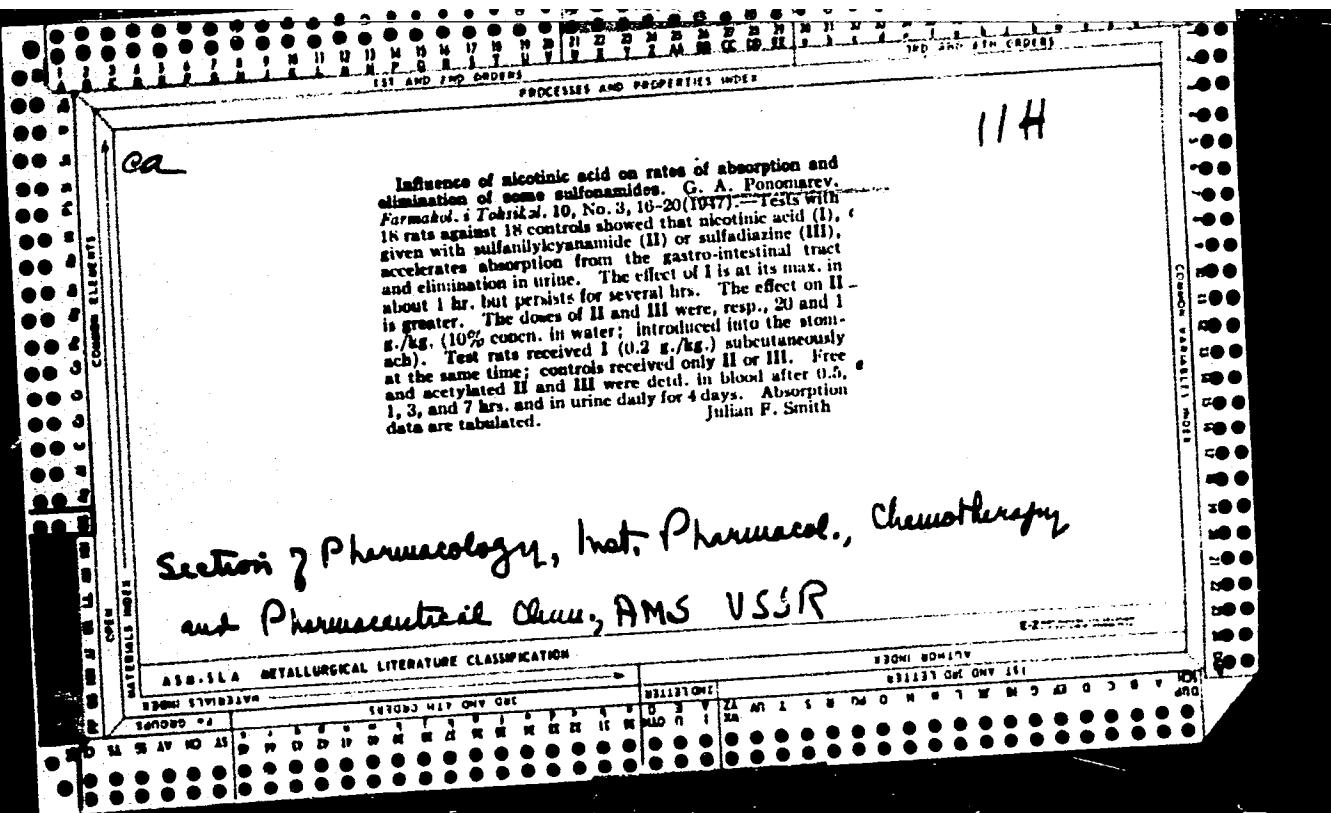












Doc Med Sci

PONOMAREV, G. A., PHYSICIAN

Dissertation: "Pharmacodynamics of Sulfarilamides and Regulation of their Distribution in Organism."  
27/11/50

Second Moscow State Medical Inst imeni

I. V. Stalin

SO Vecheryaya Moskva  
Sum 71

PONOMAREV, G.A.

*Effect of sulfanilamides with hormones, vitamins, and vegetotropic substances. Tr. Vsesoied. obsh. fiziol. no. 1:122-123 1952. (CLML 24:1)*

1. Delivered 27 January 1950, Moscow.

KUDRIN, A.N.; PONOMAREV, G.A., professor, zaveduyushchiy.

Comparative effect of analeptic substances and of poly-vitamin combination upon the reflex activity of the central nervous system of a frog affected by anemia. Farm. i toks. 16 no.3:24-27 My-Je '53. (MLRA 6:7)

1. Kafedra farmakologii Ryazanskogo meditsinskogo instituta imeni akad. I.P.Pavlova. (Vitamins) (Anemia) (Stimulants)